

FIGURE 1

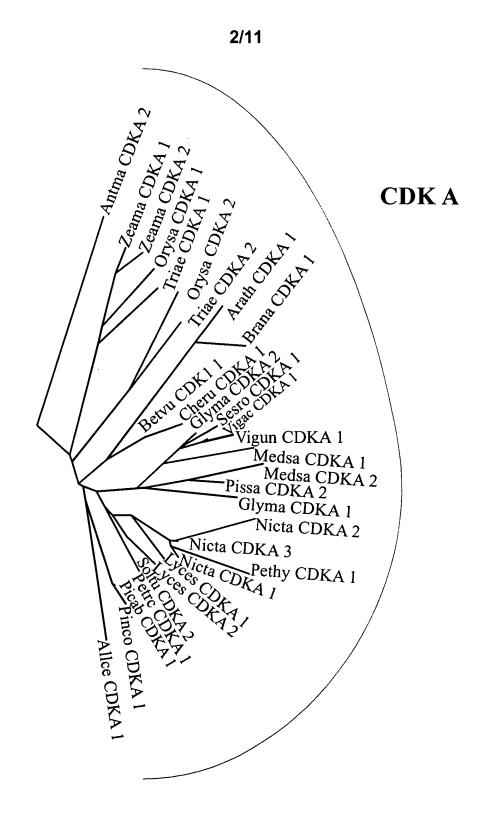


FIGURE 2

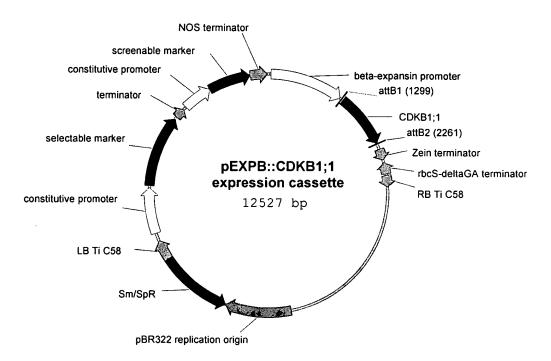


FIGURE 3

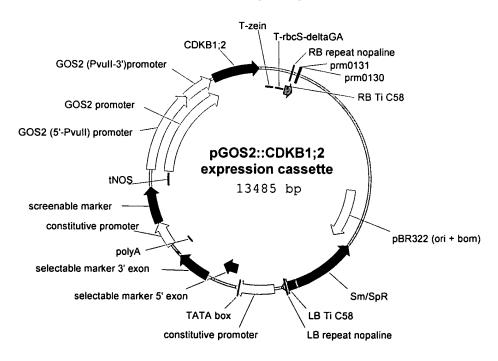


FIGURE 4

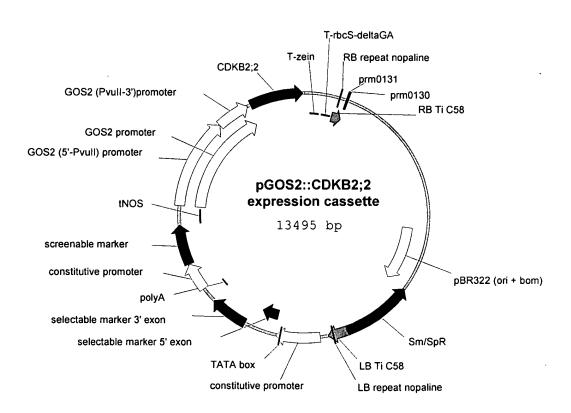


FIGURE 5

SEQ ID NO 1: DNA sequence of CDK B 1;1

SEQ ID NO 2: Protein sequence of CDK B 1;1

MEKYEKLEKVGEGTYGKVYKAMEKGTGKLVALKKTRLEMDEEGIPPTALREISLLQMLSTSI YVVRLLCVEHVHQPSTKSQSTKSNLYLVFEYLDTDLKKFIDSYRKGPNPKPLEPFLIQKLMF QLCKGVAHCHSHGVLHRDLKPQNLLLVKDKELLKIADLGLGRAFTVPLKSYTHEIVTLWYRA PEVLLGSTHYSTGVDMWSVGCIFAEMVRRQALFPGDSEFQQLLHIFRLLGTPTEQQWPGVST LRDWHVYPKWEPQDLTLAVPSLSPQGVDLLTKMLKYNPAERISAKTALDHPYFDSLDKSQF

SEQ ID NO 3: DNA sequence of CDK B 1;2

atggagaaatacgagaagctcgaaaaggtcggtgaaggaacctatggaaaaqtctacaaagc aatggagaaaaccaccggaaaactcgtcgctctgaagaaaactaggctcqaaatqqacqaaq tacategttegteteetetgegtegaacatgttatteaategaaagattegaetgtttetea ctctcccaaatcccaatctctatctcqtttttqaqtatctcqacactqatctcaaqaaattta tagatteteatagaaagggetegaateetagaeegettgaggettetettgtqeaqaqqttt atgtttcagctttttaaaggtgtggctcattgtcatagccatggtgtgcttcaccqtqatct taaaccgcagaatcttctattggataaggataaagggattcttaagattgctqatttqqgtc ttagtegtgettttaetgtgeetettaaggettataeaeatgagattgttaetetttggtat agageteetgaagttttgettggttetaeteattaetetaetgetgttqatatttqqtetqt tggatgcatctttgccgagatgattaggaggcaagctcttttccctggtgattctgagtttc agcaactacttcatattttcagattgttaggaacaccaactgagcagcaatggccgggtgta atggcattgcgtgactggcatgtctatccaaagtgggagccgcaagacttatcacgtgctgt tccatctctatctcctgaaggaattgatcttctcacgcaaatqttqaaqtacaatccaqcaq aaagaatttcagcaaaagcagctctcgatcatccctactttgacagccttgacaaatctcag ttctqa

FIGURE 6

SEQ ID NO 4: Protein sequence of CDK B 1;2

MEKYEKLEKVGEGTYGKVYKAMEKTTGKLVALKKTRLEMDEEGIPPTALREISLLQMLSQSI YIVRLLCVEHVIQSKDSTVSHSPKSNLYLVFEYLDTDLKKFIDSHRKGSNPRPLEASLVQRF MFQLFKGVAHCHSHGVLHRDLKPQNLLLDKDKGILKIADLGLSRAFTVPLKAYTHEIVTLWY RAPEVLLGSTHYSTAVDIWSVGCIFAEMIRRQALFPGDSEFQQLLHIFRLLGTPTEQQWPGV MALRDWHVYPKWEPQDLSRAVPSLSPEGIDLLTQMLKYNPAERISAKAALDHPYFDSLDKSQ F

SEQ ID NO 5: DNA sequence of CDK B 2;2

atggacaacaatggagttaaacccqctqtttccqccatqqaaqcctttqaaaaqcttqaqaa agtaggtgaagggacttatgggaaagtttacagagcaaqagaqaaagctactgggatgatcg ttgctttgaagaagacgcgtctccatgaggatgaagaaggtqttcctcccactactcttcqc gagatetetatettgegtatgetegetegtgateeteacategttaggttgatggatgttaa gcaaggaataaacaaagaaggaaaaactgtactttaccttgttttcgagtatgttgatactg atctcaaqaaattcatcaqaaqctttcqtcaaqctqqacaqaacattccacaaaatactqtc aagtgcttgatgtaccagttatgcaaaggcatggctttttgccatggtcatggagtgttgca cagggatcttaagcctcacaatctcttgatggaccggaagacaatgacgctcaaaatagcag atcttggattagccagagccttcactctcccaatgaaaaagtatacacatgagattctaact ctatggtatagagctccggaagttcttcttggagcaacccattactctactggagtggatat ctgagctccaacagctcctccgtatattcaggttgttgggaacaccaaacgaagaagtttgg cctggagtaagcaaactcaaggactggcatgaatacccgcaatggaaaccgttgagtctctc cacaqctqtqccaaacctcqacqaqqctqqacttqatctcttatctaaaatqctqqaqtacq agccagcaaaacgaatctcagcaaagaaagctatggagcatccttacttcgatgatttgcct gacaagtcctctctctga

SEQ ID NO 6: Protein sequence of CDK B 2;2

MDNNGVKPAVSAMEAFEKLEKVGEGTYGKVYRAREKATGMIVALKKTRLHEDEEGVPPTTLR EISILRMLARDPHIVRLMDVKQGINKEGKTVLYLVFEYVDTDLKKFIRSFRQAGQNIPQNTV KCLMYQLCKGMAFCHGHGVLHRDLKPHNLLMDRKTMTLKIADLGLARAFTLPMKKYTHEILT LWYRAPEVLLGATHYSTGVDMWSVGCIFAELVTKQAIFAGDSELQQLLRIFRLLGTPNEEVW PGVSKLKDWHEYPQWKPLSLSTAVPNLDEAGLDLLSKMLEYEPAKRISAKKAMEHPYFDDLP DKSSL

SEQ ID NO 7: DNA sequence of CDK A;1 (Oryza sativa)

acctctcctccgattaatcccctcccctcttcttcctcccacttctqcqcctqctcttcctc ccctcgccgaccctacctactcgcgccqccqtcgcattggqcqqcaaacqqaqqqqqq ttaaccctgatggagcagtacgagaaggagagaagattggggagggcacgtacggggtggt gtacagggcgcgggacaaggtcaccaacgagacgatcgcgctcaagaagatccggcttgagc aggaggatgagggcqtcccctccaccqcaatccqcqagatctcqctcctcaagqagatqcat cacqqcaacatcqtcaqqttacacqatqttatccacaqtqaqaaqcqcatatatcttqtctt tgagtatctggatctggacctaaagaagttcatggactcttgtccagagtttqcgaaaaacc ccactttaattaaqtcatatctctatcaqatactccqcqqcqttqcttactqtcattctcat agagttcttcatcqagatttqaaacctcaqaatttattqataqatcqqcqtactaatqcact gaagcttgcagactttggtttagccagggcatttggaattcctgtccgcacgtttactcacg aggttqtaaccttqtqqtataqaqctccaqaqatccttcttqqatcaaqqcaqtattctaca ccagttgatatgtggtcagttggttgtatctttgcagaaatggtgaaccagaaaccactqtt ccctggtgattctgagattgatgaattatttaagatattcagggtactaggaactccaaatg aacaaagttggccaggagttagctcattacctgactacaagtctgctttccccaagtggcaa gcacaggatcttgcaactattgtccctactcttgaccctgctggttttggaccttctctctaa aatgcttcggtacgagccaaacaaaqgatcacaqctaqacaqqctcttqaqcatqaatact tcaaggaccttgagatggtacaatgaccctgctatggctttacattggattggcatatgtat gggctgggctcctcatttcattccttctqtqaacqctqtqcccttcqtttqqqcatttttq

SEQ ID NO 8: Protein sequence of CDK A;1 (Oryza sativa)

MEQYEKEEKIGEGTYGVVYRARDKVTNETIALKKIRLEQEDEGVPSTAIREISLLKEMHHGN IVRLHDVIHSEKRIYLVFEYLDLDLKKFMDSCPEFAKNPTLIKSYLYQILRGVAYCHSHRVL HRDLKPQNLLIDRRTNALKLADFGLARAFGIPVRTFTHEVVTLWYRAPEILLGSRQYSTPVD MWSVGCIFAEMVNQKPLFPGDSEIDELFKIFRVLGTPNEQSWPGVSSLPDYKSAFPKWQAQD LATIVPTLDPAGLDLLSKMLRYEPNKRITARQALEHEYFKDLEMVQ

SEQ ID NO 9: Protein sequence of Mutant 1 of CDK A;1

MEQHEKEEKIGEGTYGVVYRARDKVTNETIALKKIRLEQEDEGVPSTAIREISLLKEMHHGN IVRLHDVIHSEKRIYLDFEYLDLDLKKFMDSCPEFAKNPTLIKSYLYQILRGVAYCHSHRVL HRDLKPQNLLIDRRTNALKLADFGLARTFGIPVRTFTHEVVTLWYRAPEILLGSRQYSTPVD MWSVGCIFAEMVNQKPLFPGDSEIDELFKIFRVLGTPNEQSWPGVSSLPDYKSAFPKWQAQD LATIVPTLDPAGLDLLSKMLRYEPNKRITARQALEHEYFKDLEMVQ

SEQ ID NO 10: Protein sequence of Mutant 2 of CDK A;1

MEQYEKEEKIGEGTYGVVYRARDKVTNETTALKKIRLEQEDEGVPSTAIREISLLKEMHHGN IVRLHDVIHSEKRIYLVFEYLDLDLKKFMDSCPEFAKNPTLIKSYLYQILRGVAYCHSHRVL HRDLKPQNLLIDRRTNALKLADFGLARAFGIPVRTFTHEVVTLWYRAPEILLGSRQYSTPVD MWSVGCIFAEMVNQKPLFPGDSEIDELFKIFRVLGTPNEQSWPGVSSLPDYKSAFPKWQAQD LATIVPTLDPAGLDLLSKMLRYEPNKRITARQALEHEYFKDLEMVQ

SEQ ID NO 11: Protein sequence of Mutant 3 of CDK A;1

MEQYVKEEKIGEGTYGVVYRARDKVTNETIALKKIRLEQEDEGVPSTAIREISLLKEMHHGN IVRLHDVIHSEKRIYLVFEYLDLDLKKFMDSCPEFAKNPTLIKSYLYQILRGVAYCHSHSVL HRDLKPQNLLIDRRTNALELADFGLARAFGIPVRTFTHEVVTLWYRAPEILLGSRQYSTPVD MWSVGCIFAEMVNQKPLFPGDSEIDELFKIFRVLGTPNEQSWPGVSSLPDYKSAFPKWQAQD LATIVPTLDPAGLDLLSKMLRYEPNKRITARQALEHEYFKDLEMVQ

SEQ ID NO 12: Protein sequence of Mutant 4 of CDK A;1

MEQYEKEEKIGEGTYGVVYRARDKVTNETIALKKIRLEQEDEGVPSTAIREISLLKEMHHGN IVRLHDVIHSEKRIYLVFEYLDLDLKKFMDSCPEFAKNPTLIKSYLYQILRGVAYCHSHRVL HRDLKPQNLLIDRRTNALKLADFGLARAFRIPVRTFTHEVVTLWYRAPEILLGSRQYSTPVD MWSVGCIFAEMVNQKPLFPGDSEIDELFKIFRVLGTPNEQSWPGVSSLPDYKSAFPKWQAQD LATIVPTLDPAGLDLLSKMLRYEPNKRITARQALEHEYFKDLEMVQ

SEQ ID NO 13: Protein sequence of Mutant 5 of CDK A;1

MEPYEKEEKIGEGTYGVVYRARDKVTNETIALKKIRLAQEDEGVPSTAIREISLLKEMHHGN IVRLHDVIHSEKRIYLVFEYLDLDLKKFMDSCPEFAKNPTLIKSYLYQILRGVAYCHSHRVL HRDLKPQNLLIDLRTNALKLADFGLARAFGIPVRTFTHEVVTLWYRAPEILLGSRQYATPVD MWSVGCTFAEMVNQKPLFPGDSEIDELFKIFRVLGTPNEQSWPGVSSLPDYKSAFPKWQAQD LATIVPTLDPAGLDLLSKVLRYEPNKRITAQQALEHEYFKDLEMVQ

SEQ ID NO 14: DNA sequence of beta-expansin promoter EXPB8

aaaaccaccgagggacctgatctgcaccggtttttgatagttgagggacccgttgtgtctggt tttccgatcgagggacgaaaatcggattcggtgtaaagttaagggacctcagatgaacttat tccqqaqcatqattqqqaaqqqaqqacataaqqcccatqtcqcatqttttqqacqqtccaq atctccagatcactcagcaggatcggcgcgttcgcgtagcacccgcggtttgattcggctt cccgcaaggcggccggtggccgtgccgccgtagcttccgccggaagcgagcacgccgcc tactctctccqtttcacaatqtaaatcattctactattttccacattcatattqatqttaat gaatataqacatatatatctatttaqattcattaacatcaatatqaatqtaqqaaatqctaq tqaaaqaattaatqcaaqatcqtatctqccqcatqcaaaatcttactaattqcqctqcatat atgcatgacagcctgcatgcgggcgtgtaagcgtgttcatccattaggaagtaaccttgtca ttacttataccagtactacatactatagtattgatttcatgagcaaatctacaaaactgg aaaqcaataaqaaatacqqqactqqaaaaqactcaacattaatcaccaaatatttcqccttc tccagcagaatatatatctctccatcttgatcactgtacacactgacagtgtacgcataaac gcaqcaqccaqcttaactqtcqtctcaccqtcqcacactqqccttccatctcaqqctaqctt tctcagccacccatcgtacatgtcaactcggcgcgcgcacaggcacaaattacgtacaaaac gcatgaccaaatcaaaaccaccggagaagaatcgctcccgcgcgcqgcggcgcgcgcacgt acqaacqcacqcacqcccaaccccacqacacqatcqcqcqacqccqqcqacaccqq ccgtccacccgcgccctcacctcgccgactataaatacgtaggcatctgcttgatcttgtca tccatctcaccaccaaaaaaaaaggaaaaaaaaaacaaaacacaccaagccaaataaaagcg aca

SEQ ID NO 15: DNA sequence of GOS2 promoter

atataaaatgagaccttatatatgtagcgctgataactaqaactatqcaaqaaaaactcatc cacctactttagtggcaatcgggctaaataaaaaagagtcgctacactagtttcgttttcct tagtaattaaqtqqqaaaatqaaatcattattgcttaqaatatacqttcacatctctgtcat gaagttaaattattcgaggtagccataattgtcatcaaactcttcttgaataaaaaatctt tctagctgaactcaatgggtaaagagagagtttttttttaaaaaaatagaatgaagatattc tgaacgtattggcaaagatttaaacatataattatataattttatagtttgtgcattcgtca attgacttatttttattattttttttttgattagatgcaaggtacttacgcacacactt tgtgctcatgtgcatgtgtgagtgcacctcctcaatacacgttcaactagcaacacatctct aatatcactcgcctatttaatacatttaggtagcaatatctgaattcaagcactccaccatc accagaccacttttaataatatctaaaatacaaaaaataattttacagaatagcatgaaaag gegecaateteeeatattgggcacacaggcaacaacagagtggetgeeeacagaacaaccca caaaaaacgatgatctaacggaggacagcaagtccgcaacaaccttttaacagcaggctttg cggccaggagaggaggagggcaaagaaaccaagcatcctcctcctccatctataaat tcctcccccttttcccctctatataggaggcatccaagccaagaagagggagagcacca aggacacgcgactagcagaagccgagcgaccgccttcttcgatccatatcttccggtcgagt tcttggtcgatctcttccctcctccacctcctcacagggtatgtgcccttcggttgttc ttggatttattgttctaggttgtgtagtacgggcgttgatgttaggaaaggggatctgtatc tgtgatgattcctgttcttggatttgggatagaggggttcttgatgttgcatgttatcggtt cgqtttqattaqtaqtatqqttttcaatcqtctqqaqaqctctatqqaaatqaaatqqttta gggtacggaatcttgcgattttgtgataccttttgttttgaggtaaaatcagagcaccggtga ttttgcttggtgtaataaaagtacggttgtttggtcctcgattctggtagtgatgcttctcg atttgacgaagctatcctttgtttattccctattgaacaaaaataatccaactttgaagacg gtcccgttgatgagattgaatgattgattcttaagcctgtccaaaatttcgcagctggcttg tttagatacagtagtccccatcacgaaattcatggaaacagttataatcctcaggaacaggg gattccctgttcttccgatttgctttaqtcccaqaatttttttttcccaaatatcttaaaaaq tcactttctggttcagttcaatgaattgattgctacaaataatgcttttatagcgttatcct agctgtagttcagttaataggtaatacccctatagtttagtcaggagaagaacttatccgat ttctgatctccatttttaattatatgaaatgaactgtagcataagcagtattcatttggatt atttttttttttagctctcacccttcattattctgagctgaaagtctggcatgaactgtcct caattttgttttcaaattcacatcgattatctatgcattatcctcttgtatctacctgtaga gggatagttatactgcttgttcttatgattcatttcctttgtgcagttcttggtgtagcttq ccactttcaccagcaaagttc

SEQ ID NO 16: DNA sequence of sense primer prm0350

ggggacaagtttgtacaaaaaagcaggcttcacaatggagaagtacgagaagctaga

SEQ ID NO 17: DNA sequence of antisense primer prm0351 ggggaccactttgtacaagaaagctgggttcagaactgagacttgtcaagg

SEQ ID NO 18: DNA sequence of sense primer prm439
ggggacaagtttgtacaaaaaagcaggcttcacaatggagaaatacgagaagctc

SEQ ID NO 19: DNA sequence of antisense primer prm440 ggggaccactttgtacaagaaagctgggtggtcagaactgagatttgtc

CDKB2.1 CDKB2.2 CDKB1.1 CDKB1.2	MDEGVIAVSAMDAFEKLEKVGEGTYGKVYRAREKATGKIVALKKTRLHEDEEGVPSTT MDNNGVKPAVSAMEAFEKLEKVGEGTYGKVYRAREKATGMIVALKKTRLHEDEEGVPPTT	60 48
CDKB2.1 CDKB2.2	LREISILRMLARDPHVVRLMDVKQGLSKEGKTVLYLVFEYMDTDVKKFIRSFR LREISILRMLARDPHIVRLMDVKQGINKEGKTVLYLVFEYVDTDLKKFIRSFR	
CDKB1.1	LREISLLOMLSTSIYVVRLLCVEHVHOPSTKSQSTKSNLYLVFEYLDTDLKKFIDSYR	
CDKB1.1	LREISLLOMLSOSIYIVRLLCVEHVIOSKDSTVSHSPKSNLYLVFEYLDTDLKKFIDSHR	
CDRB1.2	****:*:*: . ::***: *::	100
CDKB2.1	STGKNIPTQTIKSLMYQLCKGMAFCHGHGILHRDLKPHNLLMDPKTMRLKIADLGLAR	169
CDKB2.2	QAGQNIPQNTVKCLMYQLCKGMAFCHGHGVLHRDLKPHNLLMDRKTMTLKIADLGLAR	171
CDKB1.1	KGPNPKPLEPFLIQKLMFQLCKGVAHCHSHGVLHRDLKPQNLLLVKDKELLKIAD <i>LGLGR</i>	166
CDKB1.2	${\tt KGSNPRPLEASLVQRFMFQLFKGVAHCHSHGVLHRDLKPQNLLLDKDKGILKIAD} LGLSR$	168
	. : * :, :: :*:** **:*.**.**:******:***: *******.*	
CDKB2.1	$AFTLPMKKYTHEILTL \verb wyrapevllgathystavdmwsvgcifaelvtnqaifqgdselq $	229
CDKB2.2	AFTLPMKKYTHEILTL WYRAPEVLLGATHYSTGVDMWSVGCIFAELVTKQAIFAGDSELQ	231
CDKB1.1	AFTVPLKSYTHEIVTLWYRAPEVLLGSTHYSTGVDMWSVGCIFAEMVRRQALFPGDSEFQ	226
CDKB1.2	AFTVPLKAYTHEIVTLWYRAPEVLLGSTHYSTAVDIWSVGCIFAEMIRRQALFPGDSEFQ	228
	:*:* *:******************:: .**:*	
CDKB2.1	QLLHIFKLFGTPNEEMWPGVSTLKNWHEYPQWKPSTLSSAVPNLDEAGVDLLSKMLQYEP	289
CDKB2.2	QLLRIFRLLGTPNEEVWPGVSKLKDWHEYPQWKPLSLSTAVPNLDEAGLDLLSKMLEYEP	291
CDKB1.1	QLLHIFRLLGTPTEQQWPGVSTLRDWHVYPKWEPQDLTLAVPSLSPQGVDLLTKMLKYNP	286
CDKB1.2	QLLHIFRYLLLVFDANVY-VYRNQFRTLAH	257
	***:**::	
CDKB2.1	AKRISAKMAMEHPYFDDLPEKSSL 313	
CDKB2.2	AKRISAKKAMEHPYFDDLPDKSSL 315	
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CDKB1.2		